Benzene, 4-chloro-1-(dimethoxymethyl)-

Inchi: InChI=1S/C9H11ClO2/c1-11-9(12-2)7-3-5-8(10)6-4-7/h3-6,9H,1-2H3
InchiKey: YRNBYTFFWMWTGG-UHFFFAOYSA-N
Formula: C9H11ClO2
SMILES: COC(OC)c1ccc(Cl)cc1
Mol. weight [g/mol]: 186.63
CAS: 3395-81-1

Physical Properties

Property code	Value	Unit	Source
gf	-96.69	kJ/mol	Joback Method
hf	-289.49	kJ/mol	Joback Method
hfus	15.77	kJ/mol	Joback Method
hvap	47.38	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.631		Crippen Method
mcvol	137.890	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
tb	518.81	K	Joback Method
tc	734.53	K	Joback Method
tf	289.51	K	Joback Method
vc	0.510	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.12	J/mol×K	518.81	Joback Method
cpg	301.86	J/mol×K	554.76	Joback Method
cpg	313.97	J/mol×K	590.72	Joback Method
cpg	325.47	J/mol×K	626.67	Joback Method
cpg	336.34	J/mol×K	662.62	Joback Method
cpg	346.59	J/mol×K	698.58	Joback Method
cpg	356.22	J/mol×K	734.53	Joback Method
dvisc	0.0018544	Pa×s	289.51	Joback Method
dvisc	0.0009761	Pa×s	327.73	Joback Method

dvisc	0.0005875	Pa×s	365.94	Joback Method
dvisc	0.0003892	Pa×s	404.16	Joback Method
dvisc	0.0002769	Pa×s	442.38	Joback Method
dvisc	0.0002079	Pa×s	480.59	Joback Method
dvisc	0.0001629	Pa×s	518.81	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3395811&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume